# Service Manual

Mini Cassette

Auto-Reverse Cassette Recorder with Voice Activated System

**RQ-382** 

(Silver)



This is the Service Manual for the following area.

M ...For U.S.A.

#### **RQ-382 MECHANISM SERIES**

#### **■ SPECIFICATIONS**

Power Requirement: AC; 120 V, 60 Hz (with included

Panasonic AC Adaptor)

Battery; 3V (Two "AA" size batteries) (Panasonic UM-3 or equivalent)

Car Battery; with optional Panasonic

Car adaptor

RP-993 and Panasonic DC Plug Adaptor

RP-007

Power Consumption: 4W (AC only)

Power Output: 600 mW (R.M.S. max.)

Frequency Response: 250~7,000 Hz

Motor: Electrical governor motor

Tape Speed:  $1^7/_8$ ips (4.8 cm/s)

Track System: 2-track monaural recoding and playback

Recoding System: AC bias, Magnet erase

Jacks: Mic; sensitivity 0.25 mV/applicable

microphone impedance 200 $\sim$ 600 $\Omega$ 

(**\$**3.5)

DC IN; 3V (φ2.5) Monitor; 8Ω (φ3.5)

Speaker:  $1^{25}/_{32}$ " (4.5 cm) PM Dynamic Speaker,  $8\Omega$ 

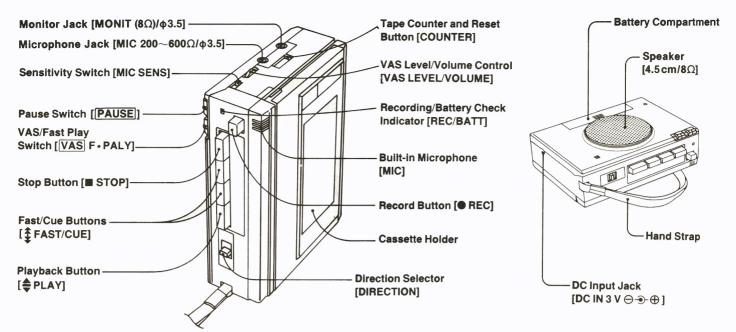
Dimensions:  $2^{7}/_{8}"(W) \times 4^{7}/_{16}"(H) \times 1^{3}/_{8}"(D)$ 

[82.5(W) $\times$ 113(H) $\times$ 34.5(D)]mm

Weight: 10.2 oz (290 g) without batteries

Weights and dimensions shown are approximate. Design and specifications are subject to change without notice.

# **LOCATION OF CONTROLS AND COMPONENTS**



### **DISASSEMBLY INSTRUCTIONS**

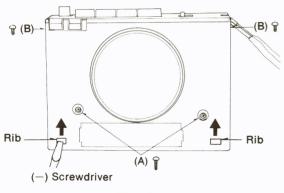


Fig. 1

- 1. Remove the screw (A) (2  $\times$  8) mm  $\times$  2.
- 2. Remove the screw (B)  $(1.6\times4)$  mm $\times2$ .
- 3. Push the rib with screwdriver in the direction of arrow and remove the Rear Cabinet Ass'y.

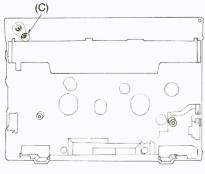


Fig. 3

5. Remove the screw (C)  $(1.6\times4)$ mm $\times1$  and then remove the microphone holder and microphone.

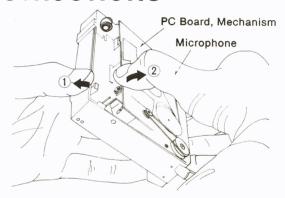


Fig. 2

Open the bottom of the front cabinet in the direction of arrow ①, and remove the PC board and mechanism in the direction of arrow ②. (Be careful not be break the microphone wire.)

Note: When removing the PC board and the mechanism, the jack cover and microphone sensitivity selector knob will come off, so be careful not to lose them.

(Assembly precaution: Mounting the Battery Terminal after aligning the Battery Terminal with the Rear Cabinet Ass'y.)

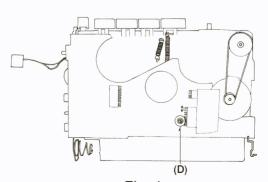


Fig. 4

6. Remove the screw (D)  $(1.6\times4)$  mm $\times1$ .

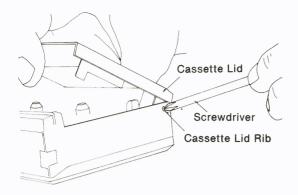


Fig. 5

7. Push the rib with the end of a Phillips screwdriver to remove the cassette compartment.

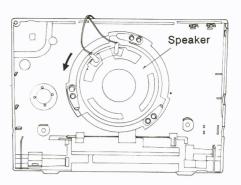


Fig.6

8. Turn the speaker in the direction of the arrow to remove it.

# **MEASUREMENTS AND ADJUSTMENTS**

#### **■ ALIGNMENT INSTRUCTION**

#### READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

- Set volume control to maximum.
   Set F. PLAY/VAS switch to OFF.
   Set MIC SENS switch to OFF.

- 4. Set PAUSE OFF/Lock switch to OFF.
- 5. Set power source voltage to 3V DC.

#### **■ ADJUSTMENT**

ITEM	INPUT	MEASUREMENT POINT	SPECIFICATION	ADJUSTMENT POINT	REMARKS
Head azimuth	QZZCFM (8kHz, -20dB)	Headphones jack	Maximum output	Head adjustment screw	
Governor circuit (μ adjustment)	QZZCWAT	Headphones jack	Wow and flutter: Less than 0.5% (RMS)	Short the slit(B) by soldering.	Before measurement, short the slit (A) and open the slit (B) by soldering.
Tape speed	QZZCWAT	Headphones jack	3000± $^{90}_{60}$ Hz	VR2	<ul> <li>(1) Playback the test tape in both forward and reverse directions.</li> <li>(2) Adjust VR2 to obtain counter readings within specified tolerances for both directions.</li> </ul>

#### **ADJUSTMENT POINT**

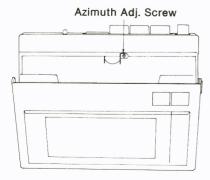


Fig. 1

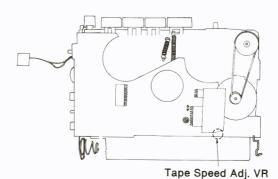


Fig. 2

— 3 —

#### **ELECTRICAL PARTS LIST**

#### **Numbering System of Resistor**

#### **Numbering System of Capacitor**

E	emple ERD	25	F	J
	Туре	Wattage	Shape	Tolerance
	ERX	2	AN	J
	Туре	Wattage	Shape	Tolerance

101	
Value (1 <b>00</b> Ω) 2R2	
Value (2.2Ω)	

Example ECKD	1H	102	Z	F
Туре	Voltage	Value (1000 pF)	Tolerance	Peculiarity
ECEA	50	M	R47	
Туре	Voltage	Peculiarity	Value (0.47 μF)	

Resistor Type	Wattage Tolerance
ERD: Carbon ERG: Metal Film ERX: Metal Film ERQ: Fuse Type Metal RRD: Carbon (Chip Type)	10: 1/8 W J: ±5% 12: 1/2 W 25: 1/4 W 1: 1 W 18: 1/8 W

	Vol	Voltage			
Capacitor Type	ECEA Type	Other	Tolerance		
ECEA: Electrolytic	0J : 6.3 V	2H : 500 V DC	C: ±0.25 pF		
ECCD: Ceramic	1A: 10 V	1 : 100 V	J : ±5%		
ECKD: Ceramic	1C : 16 V	DKC: 400 V AC	K: ±10%		
ECQM: Polyester	1E : 25 V		Z: +80%,		
	1H : 50 V		-20%		
ECQP: Polypropylene	1V : 35 V		P: +100%,		
, , , ,	50 : 50 V		-0%		
ECET: Electrolytic					
ECEA□□□N: Non Polar	25 : 25 V				
Electrolytic	16 : 16 V				
QCU : Ceramic (Chip Type)					
ECUX: Ceramic (Chip Type)					

#### REPLACEMENT PARTS LIST

Important safety notice Components identified by A mark have special charactristics important for safety.

When replacing any of these components, use only

manufacturer's specified parts.

Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.	Part No.	Ref. No.	Part No.
CAPAC	CITORS	C 10	ECEA1HKK010	RESIS	STORS	R 12	RRD10XJ331	R 28	RRD10XJ391
C 1, 11	QCUX1E333MRL	C 13, 17, 27, 32, 34, 35	QCUX1E104ZFX	R 1, 11	RRD10XJ152	R 13	RRD10XJ181 RRD18XJ271	R 29 R 31	RRD10XJ824 RRD10XJ823
C 2	QCUX1H152KUX	04, 00	QOOXILIO421X	R 2, 16	RRD10XJ562	R 15, 30	RRD10XJ332	R 32	RRD10XJ274
C 3, 20, 26	QCUX1H222MRL	C 15, 24, 30	ECEA1CKK4R7	R 3, 34	RRD10XJ153	R 17	RRD10XJ751	R 35	RRD10XJ474
C 4, 38 C 5, 25	QCUX1H102MRL QCUX1H103MRL	C 16 C 18, 19	QCUX1E223MRL QCUX1E224ZFX	R 4	RRD10XJ5R6 ERSB39JR40	R 19 R 21	RRD10XJ224 RRD18XJ183	R 36, 38 R 39	RRD10XJ221 RRD18XJ100
C 6, 7, 29, 33,	QOOXIIIIOMINE	C 21	ECEA1EKK3R3	R 6, 40	RRD10XJ4R7	R 22	RRD10XJ820		
37	ECEA0GKK220	C 22	ECEA0GKS470 ECEA0GKS221	R 7	RRD10XJ682	R 23 R 24	RRD10XJ101 ERSB15J103	CHIP \	UMPER
C 8 C 9, 12, 14, 23,	ECSE0JY225R	C 28 C 31	QCUX1H473ZFX	R 8, 37 R 9, 20, 33	RRD10XJ822 RRD10XJ273	n 24	EU9B191103	RJ 1, 4, 5, 6, 7	RRD18XJ000
36	ECEA0GKS101			R 10, 25	RRD10XJ100	R 27	RRD18XJ471	RJ 2	RRD10XJ000

Ref. No.	Part No.	Part Name & Description	Ref. No.	Part No.	Part Name & Description	Ref. No.	Part No.	Part Name & Description
	INTEGRA	TED CIRCUITS			DIODE		SW	ITCHES
IC 1 IC 2 IC 3	AN6221S AN6230S AN6612S	IC (PRE AMP) IC (POWER AMP) IC (MOTOR CONTROL)	D 2	SLB22UR3	LED (REC/BATT IND)	S 1 S 2 S 3 S 4	QSS4224 RSS2B40Z MSW1273NBK QSS2235	Slide Switch (REC/PLAY) Slide Switch (MIC SENS) Leaf Switch (Motor) Slide Switch (VAS/F*PLAY)
	TRAN	SISTORS	L 1	QLB0195	Coil (BIAS OSC)	S 5 S 6	QSS1228 MSW1236	Slide Switch (VAS/FFEAT) Slide Switch (PAUSE) Leaf Switch
Q 1 Q 2 Q 3, 4, 5, 6	2SC2412KS 2SA881SERF 2SA1037KS	Transistor (BIAS OSC) Transistor (MOTOR DRIVE) Transistor (VAS)	VR 1 VR 2	VARIABL EVLFBAA00A14 EVND1AA00B32		S 7	QSS2238	(F/R Mode Select) Slide Switch (Direction Select)
	25A 1037 N 5	Transistor (VAS)	VNZ	EVINDIAAOOBSZ	(Tape Speed Adj.)		_ J	ACKS
						J 1 J 2 J 3	QJA0199 RJJD3S5Z RJJB2Z	Jack (MIC) Jack (MONITOR) Jack (DC In)

#### Note:

1. S1	-1∼S1-3:	REC/PLAY	Selector	Switch	in "PLAY"
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Position.

(P... PLAY, R... REC)

MIC SENS Selector Switch in "High" 2. S2-1, S2-2:

Position.

(L...Low, H...High)

3. S3: Motor Switch in "ON" Position.

F. PLAY/VAS Switch in "OFF" Position. S4-1, S4-2:

(ON ... ON, OF ... OFF)

PAUSE OFF/Lock Switch in "OFF" 5. S5:

Position.

(ON...ON, OF...OFF)

FWD/REV mode Select Switch in "OFF" 6. S6:

Position.

DIRECTION Select Switch in "FWD" 7 S7:

Position.

(F...FWD, R...REV)

8. VR1: Volume/VAS Level control VR.

9. VR2: Tape speed adjustment VR.

10. DC Voltage measurement are taken with electronics voltmeter from negative terminal of battery.

No mark...PLAY, (( ))...REC. ( )... VAS OFF, ((

)) ... VAS ON

11. Described is schematic diagram are two types of numbers; the supply parts number and production parts number for transistors and diodes.

One type number is used for supply parts number and production parts number which they are identical.

e.g. Q1

2SC2412NRTB, LNSTB—Production parts number [2SC2412]--Supply parts number

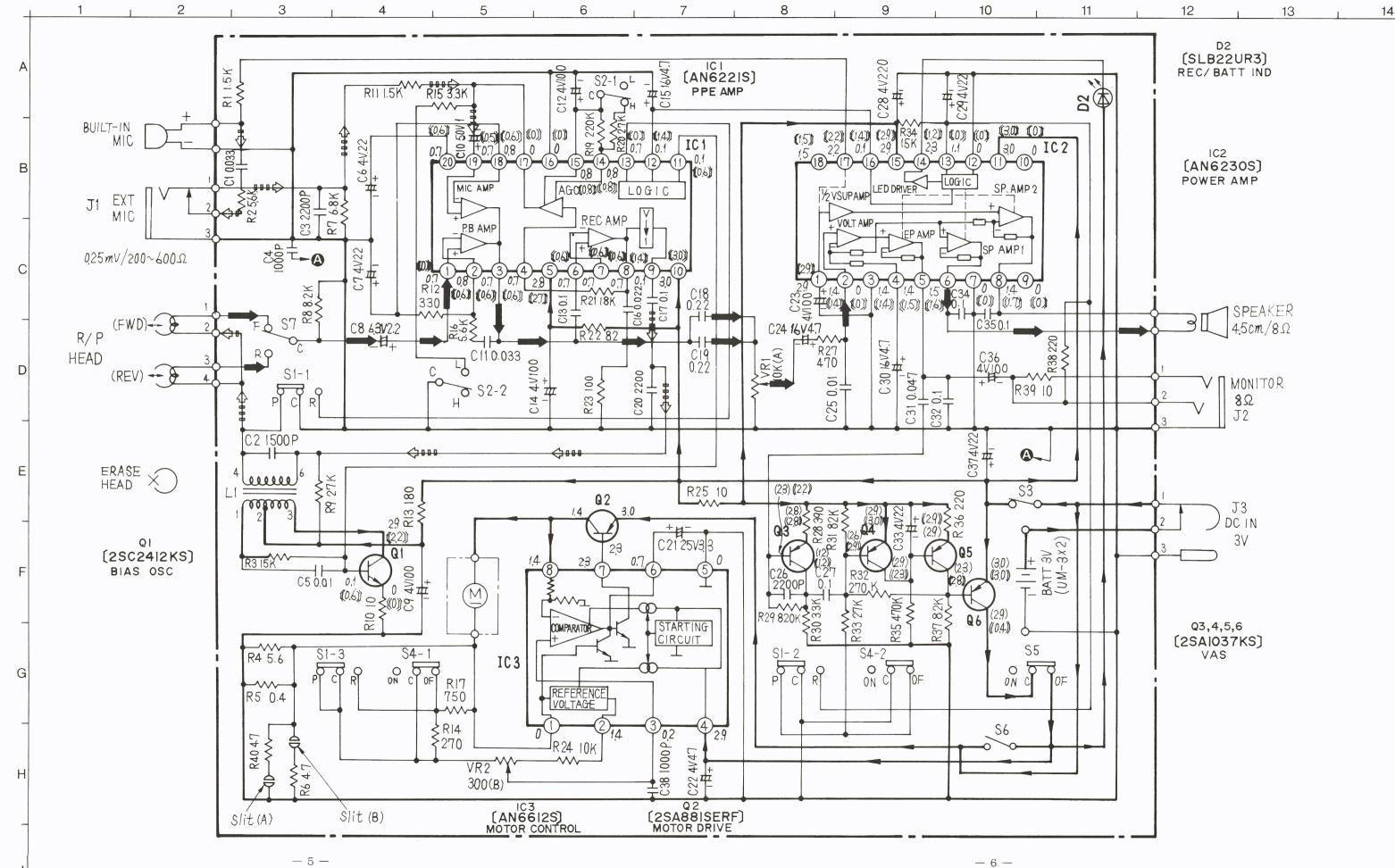
12. The supply parts number is described alone in the replacement parts list.

This schematic diagram may be modified at any time with the development of new technology.

Battery current: No signal...... 140 mA Maximum output...... 400 mA

PLAYBACK Signal Line □□□□ RECORD Signal Line

SCHEMATIC DIAGRAM MODEL



# **CIRCUIT BOARD AND WIRING CONNECTION DIAGRAM**

12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |

D2
(SLB22UR3)
EC/BATT IND

IC2 (AN6230S) POWER AMP

3 SPEAKER 4.5cm/85

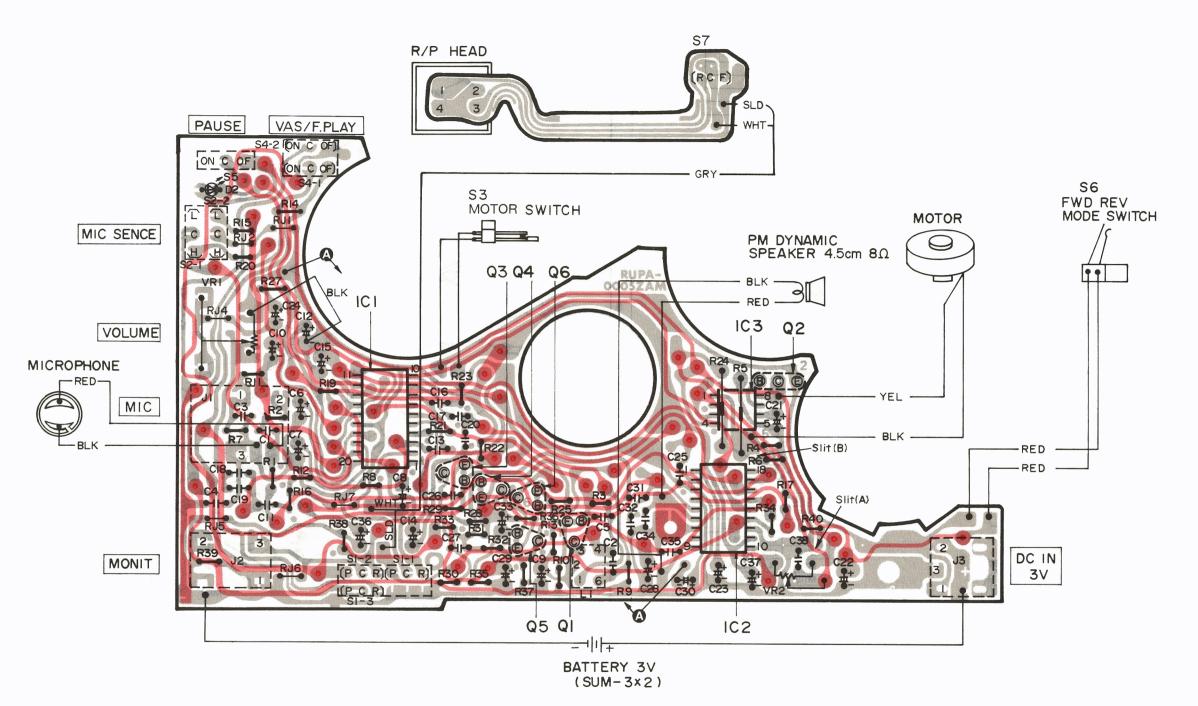
MONITOR

8 \( \Omega \)

J2

J3 DC IN 3V

Q3,4,5,6 2SAIO37KS) VAS



#### NOTES:

 The circuit shown in entry on the conductor indicates printed circuit on the back side of the printed circuit board.

Q2

Q3~6

- The circuit shown in on the conductor indicates printed circuit on the front side of the circuit board, which is put the mechanism unit.
- Chip resistor
- The circuit board diagram may be modified at any time with the development of new technology.

NOTES:	ORGOrange
BLKBlack	PNKPink
BLUBlue	REDRed
BRNBrown	SLDShield Wire
GRYGray	VLTViolet
GRNGreen	WHTWhite
L.BLULight Blue	YELYellow
NILNo Color Mark	

#### **■ SPRING LOCATIONS**

Α

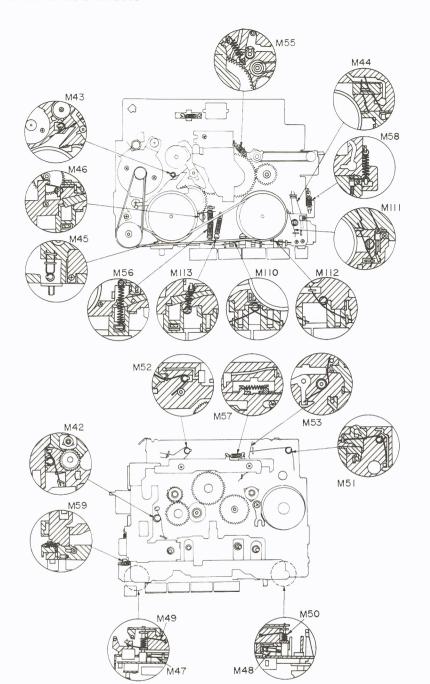
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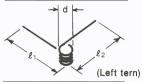




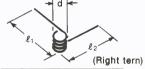
Ref. No.	ℓ×d(mm)
M55	7×3
M56	13.5×3
M57	9×2
M58	11×3
M59	6.5×2
M113	11×3

# <u>u</u>(((((() d

Ref. No.	ℓ×d(mm)
M86	5.5×4.5
M91	3.5×3



Ref. No.	$\ell_1 \times \ell_2 \times d \text{ (mm)}$
M43	10×18×3.5
M44	18.5×18.5×5
M45	13×13.5×4
M46	12×18×4.5
M47	15×13×4.5
M49	13.5×15×3.2
M53	13.7×18×6
M54	7×10.5×2.5
M111	11×11×4



Ref. No.	$\ell_1 \times \ell_2 \times d \text{ (mm)}$
M48	14.5×15×4.5
M50	14.6×10×3.2
M51	14.5×22.8×4
M52	14×16×4
M110	14.5×14.5×4
M112	13×9×4

#### Screw Dimensions Quick Reference

#### • Dimensions

XSN 3 + 10=Pan head machine screw, 3mm in diameter, 10mm long.



#### • Types

Precision machine screw	Machine screw	Tapping/Tap-tight machine screw			
XQC Flat head	XSB Binding head	XTB Binding head			
XQG Oval fillister head	XSC Oval countersunk head	XTC Oval countersunk head			
XQH Flat fillister head	XSH Flat fillister head	XTN Pan head			
XQS Flat head	XSN Pan head XSS Flat head	XTS Flat head			

Part Name & Description

E Ring φ2 (FF Lever Ass'y E Ring φ1.5 (Pinch Roller

Pulley Ass'y M'tg) Washer  $\phi 2.1 \times \phi 5$  (Flywheel

Ass'y) Washer  $\phi 2.1 \times \phi 3$  (Flywheel

Ass'y M'tg)
Washer  $\phi$ 1.65 (REC Change

Rod, Main Gear Ass'y, Slow Down Gear 1, Select Gear

etc. M'tg) Washer φ1.35 (Relay Gear,

Erase Head Lever M'tg)

Washer  $\phi$ 1.25 (Auto Stop

Ass'y, Power Switch, Front Cabinet Angle M'tg) Screw ⊕1.6×6 (Sub Chassis Ass'y M'tg)

Screw  $\oplus 1.6 \times 7$  (Sub Chassis Ass'y M'tg)

Screw  $\oplus 1.6 \times 4$  (Rod Guide, F/R Change Switch, Counter

Cam (Auto Stop Detecting)

Felt (Auto Stop Detecting

Bush (Auto Stop Detecting

Spring (Auto Stop Detecting

Head Ass'y (REC/PLAY) FWC (REC/PLAY Head Ass'y)

Spring (REC/PLAY Head Ass'y) Screw ⊕2×4 (REC/PLAY

Head Ass'y M'tg) Screw ⊕2×3.5 (REC/PLAY

Head Ass'y Azimuth Adjustment)

Gear Ass'y (Main)

M'tg)
Sub Chassis Ass'y

Rod (Power Switch)

Rod (F/R Change)

Rod Ass'y, PLAY Button

Rod Ass'v, REW Button

Rod Ass'y, FF Button (Silver)

Guide (Rod)

M'tg)

Gear (Slow Down 1)

Base Ass'y (Main Gear)

Collar (Sub Chassis Ass'y

Screw ⊕1.6×5 (Rod Guide

Spring (Cassette Retainer)

Washer  $\phi 2.9 \times \phi 4.6$  (Reel

Screw ⊕1.7×1.6 (Motor

Screw ⊕1.6×3 (F/R

Control Rod M'tg)

Gear B (Reel Table) Pulley (Counter)

Chassis Ass'v

Table Gear B)

Spacer (Head)

Synchronize Lever, F/R

Detecting Lever M'tg)

XQN16 + CF25 Screw \(\phi\)1.6 \times 2.5 (Main Gear

Ass'y M'tg)

Plate M'tg)

Ass'y FWD) Washer  $\phi$ 1.85 (Flywheel

Arm Ass'v M'ta)

(Intermediate

Washer  $\phi 1.25 \times \phi 3.5$ 

Ref. No.

M 63

M 64

M 65

M 66

M 67

M 71

M 74

M 75

M 76

M 77

M 78

M 80 M 81

M 83

M 84

M 85

M 86

M 87

M 89

M 90 M 90-1

M 91

M 92

M 93

M 96

M 99

M 100

M 101

M 103

M 105

M 106

M 107 M 108

Part No.

XUC2FT

XUC15FT

BNW1247

RNW164Z

RNWA0009Z

RNWA0008Z

XQN16 + CF6

XQN16 + CF7

XQN17 + C16

XTNQ16C4D

QHQ1371

1UAA382Z

RNL24Z

RNR87

RHS732Z

RNW290Z

RUQA0003Z

RUSA00037

RUAA0006Z

RMDA0004Z

1JH0012Z

QBC1496

XSN2 + 4

4UAA382Z

RNG227

RNGG0003Z

RNCA0001Z

XQN16+CF5

6UAA382Z

RUGA0001Z

RNRA0008Z

RNRA0009Z

RNRA0005Z

1NRA382Z

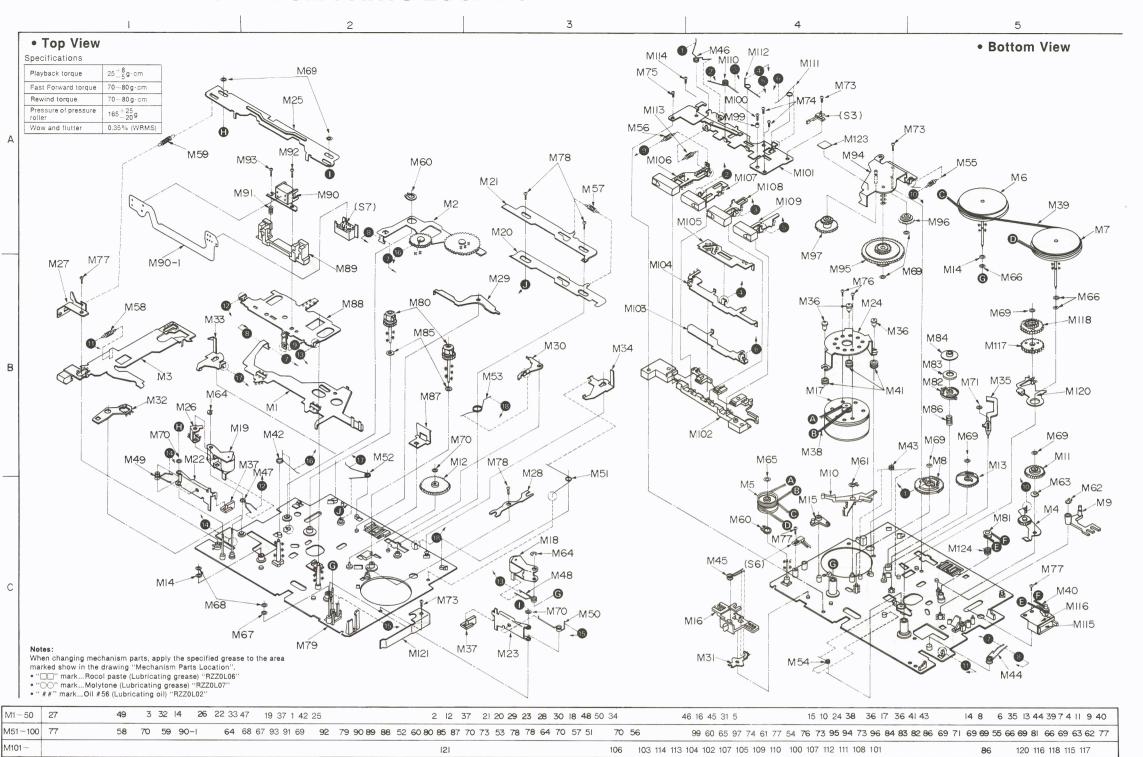
2NRA382Z

3NRA382Z

RUPA0006Z

RNG25Z RDRA0003Z

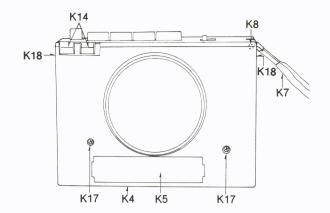
# **MECHANISM PARTS LOCATION**

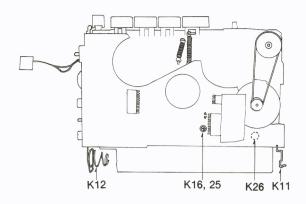


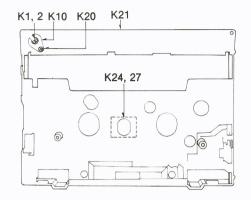
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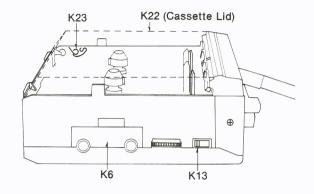
															W 100	SITIAGUEL	(Silver)
REPLAC	EMENT PAR	TS LIST													M 109	4NRA382Z	Rod Ass'y, STOP Button
Ref. No.	Part No.	Part Name & Description	Ref. No.	Part No.	Part Name & Description	Ref. No.	Part No.	Part Name & Description	Ref. No.	Part No.	Part Name & Description	Ref. No.	Part No.	Part Name & Description	M 110 M 111	RUW64Z RUWA0006Z	(Silver) Spring (FF/REW) Spring (Switch Rod)
	MECHAI	NICAL PARTS	M 13	RNG28Z	Gear (Auto Stop)	M 25	RNRA0010Z	Rod (REC Change)	M 40	RDVA0003Z	Belt (Counter)	M 51	RUWA0009Z	Spring (Erase Lever R)	7		opg (0.111,011.1100)
			M 14	RNWA0001ZA	Washer $\phi 2.1 \times \phi 3$ (Flywheel	M 26	RNLA0009Z	Lever (Rotation)	1			M 52	RUWA0010Z	Spring (Erase Lever L)	M 112	RUWA0013Z	Spring (STOP Button Rod
M 1	7NRA382Z	Rod Ass'y (Change)			Ass'y)	M 27	RULA0003Z	Retainer (REC Rod)	M 41	QBG1676	Rubber (Motor Cushion)	M 53	RUWA0011Z	Spring (Erase Protect Lever)	1		Ass'y)
M 2	RNLG0008Z	Lever Ass'y (F/R)	M 15	RNL38Z	Lever (Change)	M 28	RNLA0010Z	Lever (F/R Synchronize)	M 42	RUWA0004Z	Spring (Idler Lever Ass'y)	M 54	RUWA0012Z	Spring (Brake)	M 113	RUDA0005Z	Spring (PLAY Button Rod
M 3	5NRA382Z	Rod Ass'y, REC (Red)	M 16	RNR23Z	Rod, Change (Blue)	M 29	RNLA0011Z	Lever (Erase Protect A)	M 43	RUW60Z	Spring (Auto Stop Detecting	M 55	RUD40Z	Spring (FF Lever Ass'y)			Ass'y)
M 4	RNLG0009Z	Lever Ass'y (FF)	M 17	RFM89Z	Motor Ass'y	M 30	RNLA0012Z	Lever (Erase Protect B)			Lever)	M 56	RUDA0001Z	Spring (Head Base)	M 114	XTNQ16C3D	Screw ⊕1.6×3 (Rod Guide
M 5	1DRA382Z	Pulley Ass'y (Intermediate)	M 18	QXL1722	Arm Ass'y (Pinch Roller,				M 44	RUW62Z	Spring (F/R Lever Ass'y)	M, 57	RUDA0002Z	Spring (Block Rod)	1		M'tg)
M 6	1DWA382Z	Flywheel Ass'y (FWD)			FWD)	M 31	RNL37Z	Lever (Direction Rod)	M 45	RUW65Z	Spring (Pause Change Rod)	M 58	QBT2055	Spring (Pause Rod)	M 115	RSEA0001Z	Counter (Black)
M 7	2DWA382Z	Flywheel Ass'y (REV)	M 19	QXL1723	Arm Ass'y (Pinch Roller,	M 32	RNLA0017Z	Lever (F/R Relay)	M 46	RUWA0005Z	Spring (Power Cam)	M 59	RUDA0004Z	Spring (REC Change Rod)	M 116	RMUA0001Z	Plate (Counter)
M 8	RNGA0001Z	Cam (Power)			REV)	M 33	RNLA0004Z	Lever (Erase L)	M 47	RUWA0015Z	Spring (Pinch Roller Arm	M 60	XUBQ4FT	C Ring φ4 (F/R Change Lever,	M 117	RNGA0002Z	Gear (Select 2)
M 9	RNLA0013Z	Lever (REC/PLAY Switch	M 20	RNRA0002Z	Rod (REC Block)	M 34	RNLA0005Z	Lever (Erase R)			Ass'y REV)			Change Rod B M'tg)	M 118	RNGA0003Z	Gear (Select 1)
		Change)				M 35	RNL25Z	Lever (Auto Stop Detecting)	M 48	RUWA0016Z	Spring (Pinch Roller Arm				M 120	2NLA382Z	Lever Ass'y (Idler)
M 10	RNLA0014Z	Lever (Stopper)	M 21	RNRA0003Z	Rod (F/R Control)	M 36	QHQ1304	Screw (Motor Ass'y M'tg)			Ass'y FWD)	M 61	XUBQ3FT	C Ring $\phi$ 3 (Stopper Lever	M 121	RMDA0002Z	Angle (Front Cabinet M'tg)
			M 22	RNLA0006Z	Lever (Erase Head L)	M 37	RJH2C16XZ	Head (Erase)	M 49	RUWA0007Z	Spring (Erase Head Lever L)			M'tg)	M 123	RHSA0008Z	Felt (Post Main Gear Ass'y)
M 11	RNG18Z	Gear (FF)	M 23	RNLA0007Z	Lever (Erase Head R)	M 38	RDV47Z	Belt (Motor)	M 50	RUWA0008Z	Spring (Erase Head Lever R)	M 62	XUBQ2FT	C Ring φ2 (R/P Switch Lever	1		
M 12	RNG24Z	Gear (Relay)	M 24	RULA0002Z	Plate (Motor Ass'y)	M 39	RDV48Z	Belt (Flywheel)						M'tg)	M 124	RUQA0002Z	Spring (Counter Pulley)

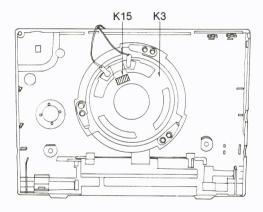
# **CABINET PARTS LOCATION**











#### REPLACEMENT PARTS LIST

Important safety notice
Components identified by △ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.

The color name in parentheses ( ) in the parts

list is the color of the part.

only manu	facturer's speci	ried parts.								
Ref. No.	Part No.	Part Name & Description	Ref. No.	Part No.	Part Name & Description	Ref. No.	Part No.	Part Name & Description		
K 1			K 15 K 16	QBM1344 XQNQC16A4F	Retainer (Speaker) Screw ⊕1.6×4 (P.C Board M'tg)	K 26 K 27	RNCA0002Z RHPA0006Z	Collar (Front Cabinet) Sheet (Reflection Sheet Sticking)		
K 2 K 3 K 4	QBG1695 EAS45P108C RYFQ382J7	Rubber (Microphone) Speaker Ass'y M'tg (Silver) Rear Cabinet Ass'y (Gray)  K 17  XTN2+8JFY Screw ⊕2×8, Rear Cabinet Ass'y M'tg (Silver)  XQN16+A4FZ Screw ⊕1.6×4, Front		ACCESSORIES						
K 5 K 6 K 7	RYNQ382J7 RHRA0004Z QYH0116K	Z Jack Board (Black) Hand Strap Ass'y (Black) Shaft (Hand Strap Ass'y) Z Angle (Microphone M'tg)	Jack Board (Black)	Jack Board (Black) Hand Strap Ass'y (Black)	K 20	Cabinet M'tg (Black)		A 1 A 2 A 3	RP29XP RQKA0001Z RQX4751Z	AC Adaptor ⚠ Carrying Case (Black) Operating Instructions
K 8 K 10 K 11	QMN2859 RMDA0003Z RJCA0003Z		(Microphone M'tg) K 22 R)	RKMA0003Y RYQQ382M	Front Cabinet (Black) Cassette Lid Ass'y (Gray)		PACKINGS			
K 12 K 13 K 14	RJCA0004Z RBDA0001Z RBDA0002Z	Terminal (Battery -) Knob, MIC SENS (Red) Knob, PAUSE, VAS (Gray)	K 23 K 24 K 25	RUSA0004Z RHP110Y XWA17BFY	Spring (Cassette Lid Ass'y) Sheet, Reflection (Silver) Washer \$\phi 1.7\$ (P.C Board M'tg)	P 1 P 2 P 3 P 4	RPKA0010Z XZB16X25A02 RPNA0006Z RPNA0007Z	Gift Box Polyethylene Cover Cushion Pad		